Rec'd REATY	PCT/	REC'D	2 29	O D SEP	EC 2004	4
		WIPO			PCT]

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

518,429

Applicant's or agent's file reference	TOD TWO THER ACTION	See Form PC	СТ/ГРЕА/416
67067-72014	FOR FURTHER ACTION		
International application No.	International filing date (day/m	onth/year)	Priority date (day/month/year)
PCT/SE 2003/001030	18.06.2003		19.06.2002
International Patent Classification (IPC)	or national classification and IPC	;	
H04L 12/56, H04L 12/2	22, G06F 15/16		l l
Applicant			
MARRATECH AB et al			Tromining
This report is the international property of the internationa	reliminary examination report, es	stablished by thi	is International Preliminary Examining 36.
Authority under Article 35 and	transmitted to the applicant according	luding this cove	
2. This REPORT consists of a total	- · <u>-</u>	manie and do	
 This report is also accompanied 	by ANNEXES, comprising:		
a. (sent to the applica	ent and to the International Bured	zu) a total of 💆	9 sheets, as follows:
and/or shee	ets containing rectifications addition	MIZEU OY ULIS AN	adioxis, (see all
		vhich this Author	ority considers contain an amendment that goes
beyond the	e disclosure in the international ap	pplication as file	ed, as indicated in item 4 of Box No. I and the
Supplemen			t of electronic carrier(s))
	ational Bureau only) a total of (in		
	, containing a containing a	tal Box Relating	to Sequence Listing (see Section 802 of the
readable form only Administrative Ins	structions).		
4 This report contains indication	as relating to the following items:	:	
4. This report contains indication Box No. I Basi	is of the report		
D D D D D	ority		
Box No. III Nor	a-establishment of opinion with r	regard to novelt	y, inventive step and industrial applicability
Pow No. TV Tac	k of unity of invention		
	d statement under Article 3	5(2) with regard	l to novelty, inventive step or industrial
app	olicability; citations and explanat	ions supporting	such statement
1 X 1 2	rtain documents cited		
	rtain defects in the international a		
Box No. VIII Cer	rtain observations on the internat	tional applicatio	n
		D. 4 C	ion of this report
Date of submission of the demand]1	Date of combied	TOM OF THE SALES
		21.09.20	0.4
14.01.2004			
Name and mailing address of the IPF	ון אינאני	Authorized offic	
Patent- och registreringsver Box 5055	rket		r+31
S-102 42 STOCKHOLM	i i	Markus S	+46 8 782 25 00
Facsimile No. +46 8 667 72 Form PCT/IPEA/409 (cover sheet) (00	TOTOPALONO 2.10.	
FOLD LC IVE EWAND (COACT SECON)	,		

INTERNATIONAL PRELIMENARY REPORT ON PATENTABILITY

Integral	application No.
PCT/SE	2003/001030

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on a translation from the original language into the following language which is the language of a translation from the original language into the following language which is the language of a translation from the original language into the following language which is the language of a translation from the original language into the following language which is the language of a translation from the original language into the following language which is the language of a translation from the language into the following language language language into the description and or not on the international application (under Rule 5.2 and/or 55.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been international application, this report is based on (replacement sheets which have been received by this Authority on as originally filed/furnished pages*	Box	No. I	Basis of the report	
which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rules 25.2 and/or 55.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not amescal to this report): the international application as originally filed/furnished the description: pages pages* received by this Authority on pages* pages* received by this Authority on pages* received by this Authority on pages* pages* received by this Authority on received by this Authority on pages* received by this Authority on as originally filed/furnished as originally filed/furnished by the drawings: as originally filed/furnished or received by this Authority on received by this Authority on received by this Authority on as originally filed/furnished by this Authority on as originally filed/furnished by this Authority on received by this Authority on as equence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, shects/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): the description, pages the claims, Nos. the claims, Nos. the drawings, shects/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):	1.	otherw	ise indicated under this item.	ļ.
publication of the international application (under Rules 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not amened to this report): the international application as originally filed/furnished the description: pages pages* pages			This report is based on a translation from the original language into the fo which is the language of a translation furnished for the purposes of:	ollowing language,
international preliminary examination (under Rules \$5.2 and/or \$5.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed." and are not amexed to this report): the international application as originally filed/furnished the description:			international search (under Rules 12.3 and 23.1(b))	
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not amnezed to this report: the international application as originally filed/furnished the description: pages received by this Authority on pages* pages* received by this Authority on pages* received by this Auth				
furnished to the receiving Office in response to an invitation under Article 14 the rejects to this report. In the international application as originally filed/furnished the description: pages*			international preliminary examination (under Rules 55.2 and/or	55.3)
the description: pages	2.	furnisl	ned to the receiving Office in response to an invitation under Article 14 report on the report of this report.	based on (replacement sheets which have been are referred to in this report as "originally filed"
pages pages pages received by this Authority on pages pages 1-7 received by this Authority on pages pages as a originally filed/furnished pages pages pages pages received by this Authority on pages pages pages pages received by this Authority on pages			the international application as originally filed/furnished	
pages* received by this Authority on pages*		\boxtimes	the description:	
the claims: pages* as originally filed/furnished as a mended (together with any statement) under Article 19			pages	
the claims: pages	l		pages* received by this Av	thority on 13 08 2004
pages* pa	Ì		pages* 1-7 received by this At	monty on _13.00.2001
pages*		\boxtimes	the claims:	es originally filed/firmished
pages*				
pages* 8-9 received by this Authority on 13.08.2004 the drawings: pages 1-2	1		pages	
the drawings: pages 1-2 pages* received by this Authority on pages* as originally filed/furnished pages* received by this Authority on a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): any table(s) related to the sequence listing (specify):	ł		pages	uthority on
pages 1-2 received by this Authority on as originally filed/furnished pages* received by this Authority on a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. 3. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):			Pa8-0	
pages*				as originally filed/furnished
a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): any table(s) related to the sequence listing (specify):			received by this A	uthority on
a sequence listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): any table(s) related to the sequence listing (specify):			pages* received by this A	authority on
the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):			a sequence listing and/or any related table(s) – see Supplemental Box	Relating to Sequence Listing.
the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):	3.		The amendments have resulted in the cancellation of:	
the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): this report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)) the description, pages the claims, Nos the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):			the description, pages	
the sequence listing (specify): any table(s) related to the sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):			the claims, Nos.	
any table(s) related to the sequence listing (specify): 4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):	1		the drawings, sheets/figs	
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):	1		the sequence listing (specify):	
made, since they have been considered to go beyond the disclosure as field, as indicates in the following field to the description, pages			any table(s) related to the sequence listing (specify):	
the claims, Nos the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):	4	1.	made, since they have been considered to go beyond the disclosure 70.2(c)).	as med, as indicates at the supplemental to the
the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify):			the description, pages	
the sequence listing (specify): any table(s) related to the sequence listing (specify):			the claims, Nos.	
any table(s) related to the sequence listing (specify):			the drawings, sheets/figs	
	}		the sequence listing (specify):	
* If item 4 applies, some or all of those sheets may be marked "superseded."	1		any table(s) related to the sequence listing (specify):	
		* If it	tem 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMATION PATENTABILITY

Box	No. V	Reasoned statement un citations and explanati	der Article 35 ons supporting	5(2) with regard to novelty, inventive step or industrial applicability g such statement	7 ;
1.	Statement				
	Novel	tu (ND)	Claims	1-4	YES
	MOACI	ty (IV)	Claims		NO
	Invent	tive step (IS)	Claims	1-4	YES
			Claims		NO
			~1 '		YES
	Indus	trial applicability (IA)	Claims Claims	1-4	МО
			Ciallis		

2. Citations and explanations (Rule 70.7)

Prior-art

In the International Search Report the following documents are cited:

D1: Al-Shaer E et al, "Application-layer group communication server for extending reliable multicast protocols services"
D2: Michael Smirnov et al, "Programmable Group Communication Services over IP Multicast"

D3: US 2002057663 A1

D4: Brian Neil Levine et al, "Improving Internet Multicast with Routing Labels"

D5: Kate Jenkins et al, "A Gossip Protocol for Subgroup Multicast"

Statement of reason

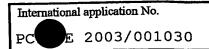
The claimed invention relates to an apparatus and method for conveying private information within an established IP-multicast group where the group involves more than two participants.

The amended claims filed with the letter of 13.08.2004 differ from the claims originally filed in that it is now clarified that the filtering means, associated with the receiving client, filter out data from the extension header.

Documents D1-D6 disclose different methods to convey information to sub-groups within an IP-multicast group, for example by means of filtering out address information from a protocol header in a network server.

.../...

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: V.

none of these documents disclose a method However, conveying data to a sub-group within a multicast group by filtering out address data in a header in the receiving clients, as defined in present claims 1, 3 and 4. The present claims, where the filtering is done in the receiving clients, present a more secure solution compared to the solution in, for example D1, where an intermediate server performs the filtering.

Further, it is not considered obvious to a person skilled in the art to change the method of any of the above mentioned documents so as to reach a method or apparatus as the one claimed in the present application.

The invention according to amended claims 1-4 is thus novel and is considered to involve an inventive step.

INTERNATIONAL PRELITARY REPORT ON PATENTABILITY

Internal application No.
PCT/SE 2003/001030

No. V		ertain docume					
Certai		shed document	s (Rule 70.			_	
	A	pplication No. Patent No.		Publication date (day/month/year)	Filing d (day/month	late h/year) 	Priority date (valid claim) (day/month/year)
	US	6490586	В1	3/12/200	2 27/12	/1999	27/12/1999
	, .						
Non	-writte	n disclosures (R	tule 70.9)				
Non		n disclosures (R		ure Date	of non-written disclosu (day/month/year)	re ref	Date of written disclosure erring to non-written disclosure (day/month/year)
Non				ure Date	of non-written disclosu (day/month/year)	re refe	erring to non-written disclosure
Non				ure Date	of non-written disclosun (day/month/year)	re refe	erring to non-written disclosure
Non				ure Date	of non-written disclosun (day/month/year)	re ref	erring to non-written disclosure
Non					of non-written disclosun (day/month/year)	re ref	erring to non-written disclosure
Non					(day/month/year)		erring to non-written disclosure
Non					(day/month/year)		erring to non-written disclosum (day/month/year)
Non					(day/month/year)		erring to non-written disclosum (day/month/year)
Non					(day/month/year)		erring to non-written disclosum (day/month/year)